Recombinant Human Erythropoietin/EPO Protein

RPCB1045

Protein Information

Size:	10 µg , 20 µg , 50 µg , 100 µg	**Tag:**	NO-tag
Reactivity:	Human	**Expressed Host:**	HEK293 cells
Calculated MW:	18.40 kDa	**Observerd MW:**	30-38 kDa

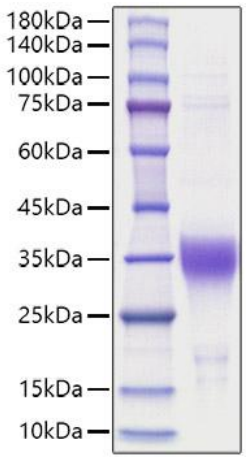
Background

Erythropoietin (EPO) is the major glycoprotein hormone regulator of mammalian erythropoiesis, and is produced by kidney and liver in an oxygen-dependent manner. The biological effects of EPO are mediated by the specific erythropoietin receptor (EPOR/EPO Receptor) on bone marrow erythroblasts, which transmits signals important for both proliferation and differentiation along the erythroid lineage. EPOR protein is a type a... single-transmembrane cytokine receptor, and belongs to the homodimerizing subclass which functions as ligand-induced or ligand-stabilized homodimers. EPOR signaling prevents neuronal death and ischemic injury. Recent studies have shown that EPO and EPOR protein may be involved in carcinogenesis, angiogenesis, and invasion.

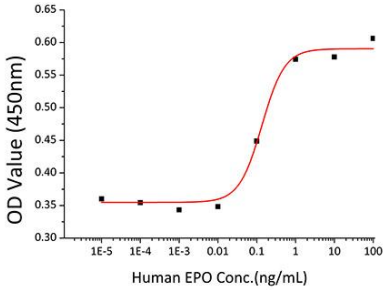
Properties

Synonyms:	EP, DBAL, ECYT5, MVCD2 ; EPO ; Erythropoietin
Gene ID:	2056
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Description:	High quality, high purity and low endotoxin recombinant Recombinant Human Erythropoietin/EPO Protein (RPCB1045), tested reactivity in HEK293 cells and has been validated in SDS-PAGE.100% guaranteed.
Purity:	≥ 90 % as determined by SDS-PAGE.
Storage:	Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.

Validation Data



Recombinant Human Erythropoietin/EPO Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human EPO stimulates cell proliferation of the TF-1 human erythroleukemic cells. The ED50 for this effect is 0.07-0.27 ng/mL, corresponding to a specific activity of 3.70 × 106~1.43× 107 units/mg.